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Vertebral screw for osteosynthesis - has threaded rod connected to head by concave, section and convex section, forming base of head

Patent Assignee: COTREL Y; SOC FAB MAT ORTHOPE

Inventors: COTREL Y

Patent Family (3 patents, 14 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
EP 283373	A	19880921	EP 1988400519	A	19880304	198838	B
FR 2612071	A	19880916	FR 19873485	A	19870313	198844	E
AU 198812800	A	19880915				198845	E

Priority Application Number (Number Kind Date): FR 19873485 A 19870313

Patent Details

Patent Number	Kind	Language	Pages	Drawings	Filing Notes
EP 283373	A	FR	10	10	
Regional Designated States,Original	AT BE CH DE ES GB GR IT LI LU NL SE				

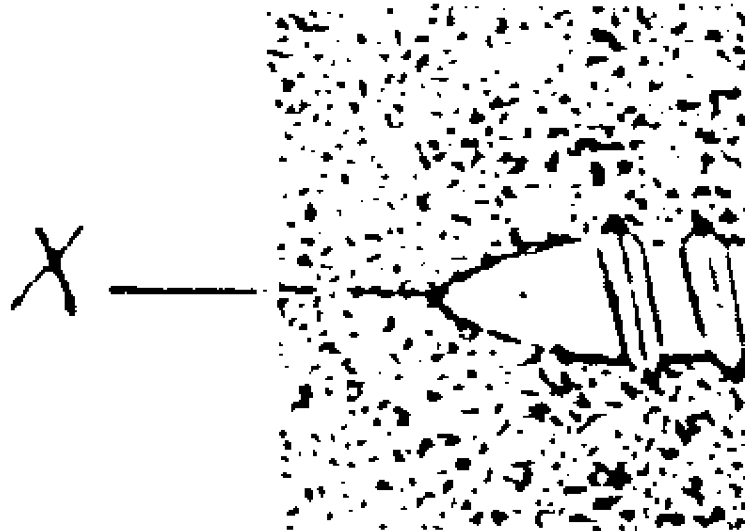
Alerting Abstract: EP A

The vertebral screw, consists of a threaded rod (2), connected by a shaped neck (3) to an end head (4). In its axial section, the neck of the screw (1) has a concave section (6) which increases in size away from the threaded portion of the screw, and a convex section forming the base of the head (4).

The shape of the neck allows the screw to be inserted up to the middle (M) of the neck without damage to the surrounding bone tissue, while the convex section is shaped so that the introduction of the screw is not hampered by these tissue.

ADVANTAGE - Easier fitting without damage to bone tissue.

Main Drawing Sheet(s) or Clipped Structure(s)

**International Patent Classification**

IPC	Level	Value	Position	Status	Version
A61B-0017/58	A	I	F	R	20060101
A61B-0017/70	A	I		R	20060101
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Current ECLA class: A61B-17/70D

Current ECLA ICO class: K61B-17:70B2

European Patent Office

Publication Number: EP 283373 A (Update 198838 B)

Publication Date: 19880921

****Wirbelschraube fuer eine Osteosynthese-Vorrichtung, insbesondere der Lenden- und Dorsalwirbelsaeule Vertebral screw for an osteosynthesis device, especially for the lumbar and dorsal spine Vis vertebrale pour dispositif d'osteosynthese, notamment du rachis lombaire et dorsal****

Assignee: SOCIETE DE FABRICATION DE MATERIEL ORTHOPEDIQUE, 60-62 rue Rothschild, F-62600 Berk/Mer, FR (MATE-N) COTREL Y (COTR-I)

Inventor: Cotrel, Yves, 110 avenue Felix Faure, F-75015 Paris, FR

Agent: Martin, Jean-Paul et al, c/o CABINET LAVOIX 2, Place d'Estienne d'Orves, F-75441 Paris Cedex 09, FR

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Designated States: (Regional Original) AT BE CH DE ES GB GR IT LI LU NL SE

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(R,I,M,EP,20060101,20051008,C)

Current ECLA class: A61B-17/70D

Current ECLA ICO class: K61B-17:70B2

Original Abstract: This vertebral screw (1) comprises a threaded rod (2) extended by a profiled neck (3) and by a terminal body (4), these different portions being rotatable about the axis (X-X) of the screw; in axial cross-section the neck (3) has, in combination, a concave part (6) of a width increasing in the direction away from the threaded rod (2), then a convex part (7) defining the base of the body (4), the profile of the concave part (6) being determined to permit the driving-in of the screw (1) up to about the middle (M) of the neck (3), without damaging the osseous pedicle element, while the convex part (7) is dimensioned in such a way that the screwing is not impeded by the adjacent osseous parts.

Claim: The vertebral screw, consists of a threaded rod (2), connected by a shaped neck (3) to an end head (4). In its axial section, the neck of the screw (1) has a concave section (6) which increases in size away from the threaded portion of the screw, and a convex section forming the base of the head (4). The shape of the neck allows the screw to be inserted up to the middle (M) of the neck without damage to the surrounding bone tissue, while the convex section is shaped so that the introduction of the screw is not hampered by these tissue.

France

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Current ECLA ICO class: K61B-17:70B2

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